





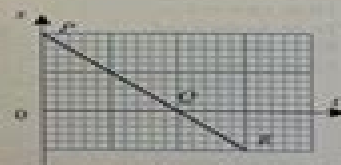
- A. 
- B. 
- C. 
- D. 

25. Which of the following statements is/are correct?

- (1) The magnitude of a displacement cannot be greater than the corresponding distance travelled.
- (2) If an object travels at uniform velocity, the magnitude of the displacement is always equal to the distance travelled.
- (3) If an object moves along a straight line, the magnitude of the displacement is always equal to the distance travelled.

- A. (1) only  
 B. (3) only  
 C. (1) and (2) only  
 D. (2) and (3) only

26.



The above displacement-time ( $x$ - $t$ ) graph shows the motion of an object travelling along a straight line. Which of the following statements is/are correct?

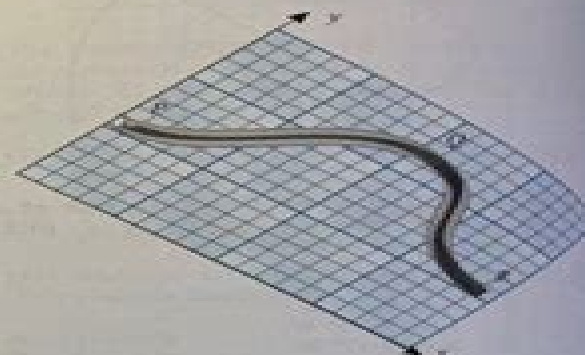
- (1) The direction of motion is reversed at  $Q$ .
- (2) The object is instantaneously at rest at  $Q$ .
- (3) The velocity of the object is constant.

- A. (1) only  
 B. (3) only  
 C. (1) and (2) only  
 D. (2) and (3) only

Multiple-Choice Questions

For questions 27 to 28:

The diagram below shows a curved track on a horizontal  $x$ - $y$  plane. A ball moves along the track with a constant speed from  $P$  to  $R$ . Assume that the largest  $y$ -displacement of the ball occurs at  $Q$ .



27. Which of the following statements is incorrect?

- A. The  $x$ -displacement of the ball is increasing throughout the journey.
- B. The  $y$ -displacement of the ball increases from zero and then falls to zero.
- C. The overall displacement of the ball is along the  $x$ -direction.
- D. The direction of the displacement of the ball at  $Q$  is along the  $x$ -direction.

28. Write  $v_x$  as the component of the ball's velocity along  $x$ -direction and  $v_y$  as the component along  $y$ -direction. Which of the following statements is incorrect?

- A.  $v_x$  is increasing throughout the journey.
- B.  $v_x$  is the largest at  $Q$ .
- C.  $v_y$  is not zero throughout the motion.
- D.  $v_y$  is zero at  $Q$ .

# Mastering Physics Answers Exercise 45

**J Rink**



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